Please type a plus sign (+) inside this box →

Sheet	1	of	4				

Complete if Known	
Application Number	09/436,618
Filing Date	November 9, 1999
First Named Inventor	Parkes et al.
Group Art Unit	2782
Examiner Name	Unassigned
Attorney Docket Number	200352

RECEIVED MAY 0 8 2002 Technology Center 2100

OIPE MAY 0 7 2002

U.S. PATENT DOCUMENTS

Examiner Initials	Doc. No.	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
		Application or Patent Number	Kind Code			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Doc. No.	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	Translation	
		Office	Application or Patent Number	Kind Code			Yes	No**

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
✓	A A	GOSLING, JAMES, et al., "The Java Language Specification," *Addison Wesley*, (1996).		
✓	A B	AILAMAKI, ANASTASSIA G., et al., "DBMSs On A Modern Processor: Where Does Time Go?," in *the Proceedings of the 25th International Conference on Very Large Data Bases*, (September 1999), pp. 266-277, Edinburgh, Scotland UK		
✓	A C	NIKHIL, ARVIND and RISHIYUR S., "I-Structure: Data Structures for Parallel Computing," *ACM Transactions on Programming Languages and Systems*, vol. 11(4):598-632, (October 1989).		

Examiner Signature		Date Considered	1/30/03

		Complete if Known	
Substitute for form 1449A/B/PTO		Application Number	09/436,618
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	Novembr 9, 1999
		First Named Inventor	Parkes et al.
		Group Art Unit	2782
(Use as many sheets as necessary)		Examiner Name	Unassigned

Sheet	2	of	4	Attorney Docket Number	200352

RECEIVED MAY 0 8 2002 Technology Center 2100

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation Yes	No*+
	A D	BANGA, GAURAV, et al., "Scalable Kernel Performance for Internet Servers Under Realistic Loads," in the *Proceedings of the USENIX 1998 Annual Technical Conferenc;* New Orleans, LO, (June 1998), pp.1-12.		
	A E	BLELLOCH, GUY E., et al., "Space-Efficient Scheduling of Parallelism with Synchronization Variables," in *Proceedings of the 9th Annual ACM Symposium on Parallel Algorithms and Architectures (SPAA)*; Newport, Rhode Island, (1997), pp.12-23.		
	A F	CAO, Q., et al., "Detailed Characterization of a Quad Pentium Pro Server Running TPC-D," in *Proceedings of the International Conference on Computer Design (ICCD)*; Austin, TX, (October 1999), pp. 108-115,		
	A G	CHILIMBI, TRISHUL, M., et al., "Cache-Conscious Structure Definition," in the *Proceedings of the ACM SIGPLAN '99 Conference on Programming Language Design and Implementation (PLDI)*; Atlanta, GA, (May 1999), , pp. 13-24.		
	A H	CHILIMBI, TRISHUL, M., et al., "Cache-Conscious Structure Layout," in *the Proceedings of ACM SIGPLAN '99 Conference on Programming Languages Design and Implementation (PLD)*; Atlanta, GA, (May 1999), pp-.12,.		
	A I	EICKEMEYER, RICHARD, J., et al., "Evaluation of Multithreaded Uniprocessors for Commercial Application Environments," in *Proceedings of the 23rd Annual International Symposium on Computer Architecture*; Philadelphia, PA, (May 1996), pp. 203-212,.		
	A J	FREEH, VINCENT, W., et al., "Distributed Filaments: Efficient Fine-Grain Parallelism on a Cluster Of Workstation," in *Proceedings of the First USENIX Symposium on Operating Systems Design and Implementation (OSDI)*; Monterey, CA, (November 1994), pp. 201-213.		
	A K	HAREL, D., et al., "On the Development of Reactive Systems," in *Logics and Models of Concurrent Systems*, vol. F13, K.R. Apt, Ed. Berlin: Springer-Verlag (1985), pp. 477-498.		
	A L	JAYASIMHA, JAY, et al., "Thread-based Cache Analysis of a Modified TPC-C Workload," *in Proceedings of the Second Workshop on Computer Architecture Evaluation Using Commercial Workload*; Orlando, FL. (1999).		
	A M	KEETON, KIMBERLY, et al., "Performance Characterization of a Quad Pentium Pro SMP Using OLTP Workloads," in *Proceedings th e25th Annual International Symposium on Computer Architecture*; Barcelona, Spain, vol. 26(3):15-26, (June 1998).		
	A N	LAMARCA, ANTHONY, et al., "The Influence of Caches on the Performance of Heaps," *The ACM Journal of Experimental Algorithmics*, (1997), pp.1-32.		
	A O	LO, JACK, L., et al., "An Analysis of Database Workload Performance on Simultaneous Multithreaded Processors," in *Proceedings of the 25th Annual International Symposium on Computer Architecture*, Barcelona, Spain, vol. 26(3):39-50, (June 1998).		
	A P	MALTZAHN, CARLOS, et al., "Performance Issues of Enterprise Level Web Proxies," in Proceedings of the *1997 ACM Sigmetrics International Conference on Measurement and Modeling of Computer Systems*; Seattle, WA, (June 1997), pp.13-23.		
	A Q	MORRIS, ROBERT, et al., "The Click Modular Router," in *Proceedings of the 17th ACM Symposium on Operating Systems Principles (SOSP '99)*; Charleston, South Carolina, vol. 33(5):217-231 (December 1999).		

Examiner Signature		Date Considered	1/20/05

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

	Complete if Known	
Substitute for form 1449A/B/PTO	Application Number	09/436,618
INFORMATION DISCLOSURE	Filing Date	November 9, 1999
STATEMENT BY APPLICANT	First Named Inventor	Parkes et al.
	Group Art Unit	2782
(Use as many sheets as necessary)	Examiner Name	Unassigned

Sheet		3	of		4	Attorney Docket Number	200352

RECEIVED MAY 0 8 2002 Technology Center 2100

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation Yes	No**
	A R	PAI, VIVEK, S., et al., "Flash: An efficient and portable Web Server," in *Proceedings of the 1999 USENIX Annual Technical Conference*; Monterey, CA, (June 1999), pp.199-212.		
	A S	PETTIS, KARL, et al., "Profile Guided Code Positioning," in *Proceedings of the ACM SIGPLAN '90 Conference on Programming Language Design and Implementation*; White Plains, NY., (June 1990), SIGPLAN NOTICES, Vol. 25(6):16-27.		
	A T	PHILBIN, JAMES, et al., "Thread Scheduling for Cache Locality," in *Proceedings of the 7th International Conference on Architectural Support for Programming Languages and Operating systems (ASPLOS VII)*; Cambridge, MA, (October 1996), pp. 60-71.		
	A U	RANGANATHAN, PARTHASARATHY, et al., "Performance of Database Workloads on Shared-Memory Systems with Out-of-Order Performance," in the *Proceedings of the 8th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS VII)*; San Jose, CA., (October 1998), pp.307-318.		
	A V	TORRELLAS, JOSEP, et al., "Optimizing the Instruction Cache Performance of the Operating System," *IEEE Transactions on Computers*. Vol. 47(12):1363-1381, (December 1998).		
	A W	WAND, MITCHELL, "Continuation-Based Multiprocessing," in *Proceedings of the 1980 LISP Conference*; Stanford University, Palo Alto, CA, (August 1980), pp. 19-28.		
	A X	HILL, MARK, D., et al., "Evaluating Associativity in CPU Caches," *IEEE Transactions on Computers*; Vol. 38(12):1612-1630, (1989).		
	A Y	LEE, EDWARD, A., et al., "Dataflow Process Network," *Proceedings of the IEEE*; Vol. 83(5):773-799, (May 1995).		
	A Z	MOGUL, JEFFREY, C., et al., "The Effect of Context Switches on Cache Performance," in Proceedings of the Fourth International Conference on Architectural Support for Programming Languages and Operating Systems," Santa Clara, CA, (April 1991), pp. 75-85.		
	B A	NAJJAR, WALID A., et al., "Advances in the dataflow computational Model," Parallel Computing, vol. 25, (1999).		
	B B	PERL, SHARON, et al., "Studies of Windows NT Performance Using Dynamic Execution Traces," in *Proceedings of the 2nd USENIX Symposium on Operating Systems Design and Implementation (OSDI)*; Vol. 30, Special Issue (1996), Seattle, WA. (October 1997).		
	B C	ROSENBLUM, MENDEL, et al., "The Impact of Architectural Trends on Operating System Performance," *Copper Mountain Resort*, CO., (December 1995), pp. 285-298.		
	B D	ACAR, UMUT, A., et al., "The Data Locality of Work Stealing," in *Proceedings of the Twelfth Annual ACM Symposium on Parallel Algorithms and Architectures (SPAA 2000)*; Bar Harbor, ME., (July 2000).		
	B E	ANDERSON, THOMAS E., "The Performance of Spin Lock Alternatives for Shared-Memory Multiprocessors,"*IEEE Transaction on Parallel And Distributed Systems*," vol. 1(1):6-16, (1990).		
	B F	BANGA, GAURAV, et al., "Better Operating System Features for Faster Network Servers," in the *Proceedings of the Workshop on Internet Server Performance*; Madison, WI June 1998.		
	B G	BARROSO, LUIZ, ANDRE, et al., "Memory System Characterization of Commercial Workloads," in *Proceedings of The 25th Annual International Symposium on Computer Architecture*; Barcelona, Spain, (June 27-July 1, 1998), pp. 3-14.		

Examiner Signature		Date Considered	

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	09/436,618	RECEIVED
			Filing Date	November 9, 1999	
			First Named Inventor	Parkes et al.	MAY 0 8 2002
			Group Art Unit	2782	
(Use as many sheets as necessary)			Examiner Name	Unassigned	Technology Center 2100
Sheet	4	of	4	Attorney Docket Number	200352

MAY 0 7 2002

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No*+
	B H	BLACKWELL, TREVOR, "Speeding up Protocols for Small Messages," in *Proceedings of ACM SIGCOMM '96 Conference on Applications, Technologies, Architectures, and Protocols for Computer Communications*; Palo Alto, CA, (August 1996), pp. 85-95.		
	B I	BLUMOFE, ROBERT D., et al., "Cilk: An Efficient Multithreaded Runtime System," *Journal of Parallel and Distributed Computing*, vol. 37(1):55-69, (1996).		
	B J	CHANKHUNTHOD, ANAWAT, et al., "A Hierarachical Internet Object Cache," in *Proceedings of the USENIX 1996 Annual Technical Conference*; San Diego, CA., (January 1996), pp. 153-163.		
	B K	DRAVES, RICHARD, P., et al., "Using Continuations to Implement Thread Management and Communication in Operating Systems," in *Proceedings of the Thirteenth ACM Symposium on Operating Systems Principles*; Pacific Grove, CA., (October 1991), pp. 122-136.		
	B L	PERL, SHARON, E., et al., "Studies of Windows NT Performance Using Dynamic Execution Traces," in *Proceedings of the Second Symposium on Operating Systems Design and Implementation (OSDI '96)*; Seattle, WA, (October 1996), pp.169-183.		
	B M	CHANDRA, SANDRA, et al., "Teapot: A Domain-Specific Language for Writing Cache Coherence Protocols," *IEEE Transactions on Software Engineering*; vol. 25(3):pp317-333, (1999).		
	B N	CHEN, J. BRADLEY, "Memory Behavior of an X11 Window System," in the *Proceedings of the Winter 1994 USENIX Conference*; San Francisco, CA, (January 1994), pp.189-200.		
	B O	PAPADIMITRIOU, CHRISTOS, "The Theory of Database Concurrency Control," Rockville, MD., Computer Science Press, (1986) pp. 1-234.		
	B P	GRAY, JIM, "The Benchmark Handbook for Database and Transaction Processing Systems," Second Edition, Morgan Kaufmann Publishers, Inc., San Mateo, CA. (1993), pp. 1-586.		
	B Q	AGHA, Gul A., "ACTORS: A Model of Concurrent Computation in Distributed Systems", Cambridge, CA: *MIT Press*, (1988)		
	B R	ACKERMAM William B., et al., "VAL-A Value –Oriented Algorithmic Language: Preliminary Reference Manual," MIT Laboratory for Computer Science, Cambridge, MA MIT/LCS/TR-218, (June 1979)		
	B S	PATTERSON, David, A., et al., "Computer Architecture: A Quantitative Approach, 2ed.. Morgan Kaufmann (1996), Chapters 3, 4 and 5.		

Examiner Signature		Date Considered	1 |30|0)

* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).